THE ASTROPHYSICAL JOURNAL LETTERS TO THE EDITOR

CONTENTS OF VOLUME 315, PART 2

1987 April 1, Number 1

	Page	Fiche
NEW LIMITS TO BIAS AND THE AMOUNT OF DARK MATTER IN THE UNIVERSE — *William C. Saslaw, H. M. Antia, and S. M. Chitre*	L1	45-A4
OBSERVATIONS OF WEAK C IV ABSORPTION TOWARD THE QSOs 2000−330 AND 2126−158 — *David M. Meyer and Donald G. York*	L5	45-A8
X-RAY–SELECTED AGNs NEAR BRIGHT GALAXIES — *John T. Stocke, Peter Schneider, Simon L. Morris, Isabella M. Gioia, Tommaso Maccacaro, and Rudolph E. Schild*	L11	45-A14
THE X-RAY SPECTRUM OF NGC 1068 — *R. Monier and J. P. Halpern*	L17	45-B6
A SEYFERT NUCLEUS OF A NEW RING GALAXY IN SEXTANS — *Ken-ichi Wakamatsu and Mitsugu T. Nishida*	L23	45-B12
GLOBULAR CLUSTER SYSTEMS IN THE SUPERGIANT ELLIPTICALS OF THE COMA CLUSTER — *William E. Harris*	L29	45-C6
HIGH-RESOLUTION IMAGING FROM MAUNA KEA: GLOBULAR CLUSTERS IN THE COMA CLUSTER GALAXY NGC 4874 — *Laird A. Thompson and Francisco Valdes*	L35	45-C14
H I GAS NEAR THE GIANT ELLIPTICAL GALAXY NGC 4472 — *R. Sancisi, N. Thonnard, and R. D. Ekers*	L39	45-D8
MULTIPEAKED X-RAY BURSTS FROM 4U/MXB 1636−53: EVIDENCE FOR BURST-INDUCED ACCRETION DISK CORONAE — *Fulvio Melia*	L43	45-D12
THE DISCOVERY OF 15–30 HERTZ QUASI-PERIODIC OSCILLATIONS IN THE X-RAY FLUX OF 4U 1820−30 — *L. Stella, N. E. White, and W. Priedhorsky*	L49	45-E3
FINE-SCALE MOTION IN THE CENTRAL ORION NEBULA — *Héctor O. Castañeda and C. R. O'Dell*	L55	45-E9
ANHARMONICITY AND THE INTERSTELLAR POLYCYCLIC AROMATIC HYDROCARBON INFRARED EMISSION SPECTRUM — *John R. Barker, L. J. Allamandola, and A. G. G. M. Tielens*	L61	45-E14
ULTRAVIOLET Al III EMISSION LINES AND THE PHYSICS OF THE SOLAR TRANSITION REGION — *G. A. Doschek and U. Feldman*	L67	45-F5

1987 April 15, Number 2

EDITORIAL: PUBLICATION TIMES AND VOLUME INDEXES — *Helmut A. Abt and A. Dalgarno*	L71	49-A9
COSMIC BACKGROUND TEMPERATURE ANISOTROPY IN A MINIMAL ISOCURVATURE MODEL FOR GALAXY FORMATION — *P. J. E. Peebles*	L73	49-A11
AN INDEPENDENT METHOD FOR DETERMINING THE AGE OF THE UNIVERSE — *D. E. Winget, C. J. Hansen, James Liebert, H. M. Van Horn, G. Fontaine, R. E. Nather, S. O. Kepler, and D. Q. Lamb*	L77	49-B1
GRAVITATIONAL LENSES AND DECAY OF DARK MATTER — *Avishai Dekel and Tsvi Piran*	L83	49-B6
EVOLUTION OF 3C 273 AT 10.7 GHz — *M. H. Cohen, J. A. Zensus, J. A. Biretta, G. Comoretto, P. Kaufmann, and Z. Abraham*	L89	49-B11
THE SPATIAL DISTRIBUTION OF DWARF GALAXIES IN THE CfA SLICE OF THE UNIVERSE — *Trinh X. Thuan, J. Richard Gott III, and Stephen E. Schneider*	L93	49-C2
THE RELATIONSHIP BETWEEN STELLAR POPULATION AND RADIO CONTINUUM EMISSION IN SPIRAL GALAXIES — *David Burstein, J. J. Condon, and Q. F. Yin*	L99	49-C8
THE REDDENING OF CYGNUS A FROM A MEASUREMENT OF PASCHEN-ALPHA — *S. J. Lilly and G. J. Hill*	L103	49-C12
NEW EVOLUTIONARY RELATIONSHIPS FOR MAGELLANIC CLOUD PLANETARY NEBULAE — *Michael A. Dopita, Stephen J. Meatheringham, Peter R. Wood, B. Louise Webster, David H. Morgan, and Holland C. Ford*	L107	49-D2

CONTENTS

	Page	Fiche
EFFECTS OF ELECTRON-POSITRON PAIR OPACITY FOR SPHERICAL ACCRETION ONTO BLACK HOLES *Alan P. Lightman, Andrzej A. Zdziarski, and Martin J. Rees*	L113	49-D8
AN 8.5 HOUR X-RAY PERIOD IN THE M15 X-RAY SOURCE 4U 2129+12 ..... *Paul Hertz*	L119	49-D14
A NEW SOFT X-RAY MODE IN THE AM HERCULIS OBJECT E2003+225 *Julian P. Osborne, Klaus Beuermann, Philip Charles, Laura Maraschi, Koji Mukai, and Aldo Treves*	L123	49-E5
INFRARED PHOTOMETRY AND SPECTROSCOPY OF SUPERNOVA 1986g IN NGC 5128–CENTAURUS A *Jay A. Frogel, Brooke Gregory, Kimiaki Kawara, Dave Laney, M. M. Phillips, Don Terndrup, Frederick Vrba, and Albert E. Whitford*	L129	49-E11
HIGH-VELOCITY EMISSION IN YOUNG SUPERNOVA REMNANTS: SN 1006 AND SN 1572 *Robert P. Kirshner, P. Frank Winkler, and Roger A. Chevalier*	L135	49-F3
SiO COOLING INSTABILITY IN THE ENVELOPES OF COOL GIANT STARS *David O. Muchmore, Joseph A. Nuth III, and Robert E. Stencel*	L141	49-F10
FLUORESCENCE EFFICIENCY FACTORS FOR IONIZED WATER VAPOR ..... *Barry L. Lutz*	L147	49-G2
BEAMING OF URANIAN KILOMETRIC RADIATION AND IMPLICATIONS FOR THE PLANETARY MAGNETIC FIELD ..... *D. D. Barbosa*	L151	49-G6
INDEX TO VOLUME 315, PARTS 1 AND 2	i	45-B1